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KY Yun, AE Dooply - Very Large Scale Integration (VLSI) Systems, IEEE ..., 1999

- leeexplore.ieee.org

... by the sampling latch at the module boundary. In our scheme, the synchronization failure is circumvented by pausing or stretching the local module clock when ... Cited by 46 - Web Search - BL Direct

#### Synchronous handshake circuits - group of 6 »

A Peeters, K van Berkel - Proc. International Symposium on Advanced Research in ... doi.ieeecomputersociety.org

... Only this time, the updates of the state variable Ü take place upon rising edges of the clock, and the state is stored in a flip-flop rather than a latch. ... Cited by 9 - Web Search

#### Serial Fault Emulation - group of 8 »

L Burgun, F Reblewski, G Fenelon, J Barbier, O ... - Proc. DAC - doi.ieeecomputersociety.org ... FPGA reconfiguration so that only one emulation run will ... edge-triggered flip-flop or a latch and it ... devices are synchronized by a complex clock system ensuring ... Cited by 9 - Web Search - BL Direct

#### [воок] Boundary-Scan Test: A Practical Approach

H Bleeker, V Den Eijnden, F de Jong - 1993 - books.googie.com

... Clock IDI Clock TO Page 23. Fig. 1-12 ShiftDR state PCB Testing 9Notice that in figure 1-12 the Boundary-Scan design comprises, a parallel latch (flip-flop) and ... Cited by 47 - Web Search - Library Search

# Static scheduling of multidomain circuits for fast functional verification - group of 3 »

M Kudlugi, R Tessier - Computer-Aided Design of Integrated Circuits and Systems, ..., 2002 - ieeexplore.ieee.org

... paper presents new scheduling and synchronization techniques to ... asynchronous clock domains in logic emulation systems is ... flip-flop whose gate/clock input is ... Web Search - BL Direct

# Replace Your Am7968 TAXI™ Transmitter With a CY7B923 HOTLink™ - group of 5 »

A Functionality - eetkorea.com

... sixteen patterns are used to define synchronization and in ... the falling edge of the reference clock where data ... HOTLink Emulation of Am7968 To create a drop-in ... View as HTML - Web Search

#### Design verification of complex microprocessors - group of 3 »

J Yim, C Park, W Yang, H Oh, H Choi, S Lee, N Won, ... - Circuits and Systems, 1996. IEEE Asia Pacific Conference on, 1996 - leeexplore.leee.org

... The cost of emulation hardware is very high and re ... to provide a buffer- ing and synchronization mechanism between ... pipeline 55,415 Verilog HDL Clock and event ... Cited by 1 - Web Search - BL Direct

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#### Zero skew clock routing with minimum wirelength.

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TH Chao, YC Hsu, JM Ho, KD Boese, AB Kahng - IEEE Transactions on Circuits and Systems II: Analog and ..., 1992 - csa.com

... In this paper, we first present the deferred-merge embedding (DME) algorithm, which embeds any given connection topology to create a **clock tree** with zero skew ... Cited by 111 - Web Search

Activity-driven clock design for low power circuits - group of 2 »

GE Téllez, A Farrahi, M Sarrafzadeh - Proceedings of the 1995 IEEE/ACM international conference on ..., 1995 - portal acm.org

... Activity-Driven Clock Tree Construction Problem (ADCTC): Let the activity pattern of a clock tree node be obtained by ORing the patterns of its sinks. ... Cited by 49 - Web Search - BL Direct

Skew sensitivity minimization of buffered clock tree - group of 6 »

J Chung, CK Cheng - Proceedings of the 1994 IEEE/ACM international conference on ..., 1994 - portal.acm.org Abstract Given a topology of **clock tree** and a library of buffers, we propose an efficient skew sensitivity minimization algorithm using dynamic programming ... Cited by 23 - Web Search - Bt. Direct

# UST/DME: A Clock Tree Router For General Skew Constraints - group of 13 »

CWENA TSAO, CKOK KOH - portal acm.org

Page 1. UST/DME: A **Clock Tree** Router For General ... [1996], and Neves and Friedman [1996] belong to the first category of research on **clock tree** synthesis. ... Cited by 27 - Web Search · BL Direct

Clock routing for high-performance ICs - group of 2 »

MAB Jackson, A Srinivasan, ES Kuh - Design Automation Conference, 1990. Proceedings. 27th ACM/ ..., 1990 - ieeexplore.leee.org

... To understand the consequences of decisions made during physical design, one must model the interconnect parasitics that load the **clock tree**. ... Cited by 102 - Web Search

Power optimal buffered clock tree design - group of 6 »

A Vittal, M Marek-Sadowska - Proceedings of the 32nd ACM/IEEE conference on Design ..., 1995 - portal.acm.org

... A bounded skew **clock tree** is synthesized and power reduction is achieved by reducing the wire length; this is not power optimal as the power dissipated by the ... Cited by 21 - Web Search - BL Direct

Zero skew clock net routing - group of 3 »

TH Chao, YC Hsu, JM He, HC ITRI - Design Automation Conference, 1992. Proceedings., 29th ACM/ ..., 1992 - ieeexplore.ieee.org

... routes from the center of the set into the centers of the two subsets, and ensures an exact balance and no length skew at the current level of the clock tree. ... Cited by 83 · Web Search

Zero-skew clock routing trees with minimum wirelength

KD Boese, AB Kahng - ASIC Conference and Exhibit, 1992., Proceedings of Fifth ..., 1992 - ieeexplore.ieee.org



clock tree and flip-flop and synchronizer

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T Kapschitz, R Ginosar, R Newton - 2004 - cs.huji.ac.il

... The most commonly used synchronizer is based ... or combinational logic driving flip-flop- based synchronizers ... typically starts with the clock tree being identified ... Cited by 2 - View as HTML - Web Search

# A new synchronizer design - group of 3 »

J Walker, A Cantoni - Computers, IEEE Transactions on, 1996 - leeexplore.leee.org ... Tzeng and HL Chen, "Structural and Tree Embedding Aspects ... region of time associated with each clock event such ... considered to occur when the flip-flop at the ... Cited by 9 - Web Search - Bt. Direct

### A Survey of Clocking Stragtegies from Synchronous to Asynchronous

M Heath - www-unix.ecs.umass.edu

... as the response properties of a flip-flop from a ... 6. Stoppable Clocks - The Alternative to the Synchronizer ... oscillator at the root of the clock tree is not ... Cited by 1 - View as HTML - Web Search

## Asynchronous & Synchronous Reset Design Techniques-Part Deux - group of 5 »

CE Cummings, D Mills, S Golson - SNUG Boston 2003 - sunburst-design.com ... the reset can occur within one clock period ... timing analysis for a reset tree must be ... design uses the distributed reset synchronizer flip-flop tree discussed in ... Cited by 3 - View as HTML - Web Search

#### **CLOCK DOMAIN CROSSING - group of 2 »**

R Biddappa - cadence.co.in

... Figure 4: Two flip-flop synchronizer solution ... may specify a two-flop synchronizer from CLK 3 ... partition and topology checks - Proper clock tree definition and ... View as HTML - Web Search

#### Low Latency Synchronization Through Speculation

E Macii... - Springer

... performance sys- tems using IP blocks with large clock trees [2]. Figures of ... Write Clock ... In the speculative synchronizer the first flip-flop must be tested to ... Web Search

#### Clock signals

SC Specifications - ee.byu.edu

... Input is sampled at this clock edge. Input: Value sampled by flip-flop at clock edge, Example: D Flip-Flop Input Clock Output BYU ECEn 493R ... View as HTML - Web Search

# Design of On-chip and Off-chip Interfaces for a GALS NoC Architecture

E Beigné, P Vivet - doi.ieeecomputersociety.org

... fifo is not strictly required : a simple 2 flip-flop synchronizer could be ... write\_enable1 write\_clk write\_clock (leaf cells) Clock-Tree write\_enable0 E\_ACCEPT1a ... Web Search



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2. Deterministic inter-core synchronization with periodically all-in-phase clo 1 power multi-core SoCs Nose, K.; Shibayama, A.; Kodama, H.; Mizuno, M.; Edahiro, M.; Nishi, N.; Solid-State Circuits Conference, 2005, Digest of Technical Papers, ISSCC, 200 International 6-10 Feb. 2005 Page(s):296 - 599 Vol. 1 Digital Object Identifier 10.1109/ISSCC.2005.1493986 AbstractPlus | Full Text: PDF(363 KB) | Multimedia IESE CNF Rights and Permissions

3. Can we really do without the support of formal methods in the verification designs? Rossi, U.; Design Automation Conference, 2005, Proceedings, 42nd 13-17 June 2005 Page(s):672 - 673 AbstractPlus | Full Text: PDF(153 KB) ISSECRE Rights and Permissions

4. Data synchronization issues in GALS SoCs Dobkin, R.; Ginosar, R.; Sotiriou, C.P.; Asynchronous Circuits and Systems, 2004. Proceedings, 10th International Sy 19-23 April 2004 Page(s):170 - 179 Digital Object Identifier 10.1109/ASYNC.2004.1299298 AbstractPlus | Full Text: PDF(1408 KB) ISSE ONE Rights and Permissions

5. Communication analysis for system-on-chip design Siebenborn, A.; Bringmann, O.; Rosenstiel, W.; Design, Automation and Test in Europe Conference and Exhibition, 2004. Proc Volume 1, 16-20 Feb. 2004 Page(s):648 - 653 Vol.1



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Static schedluing of multiple asynchronous domains for functional verification

Murali Kudlugi, Charles Selvidge, Russell Tessier

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June 2001 Proceedings of the 38th conference on Design automation

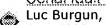
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While ASIC devices of a decade ago primarily contained synchro-nous circuitry triggered with a single clock, many contemporary architectures require multiple clocks that operate asynchronously to each other. This multi-clock domain behavior presents significant functional verification challenges for large parallel verification sys-tems such as distributed parallel simulators and logic emulators. In particular, multiple asynchronous design clocks make it difficult to verify that design hold ...

2 Serial fault emulation



Luc Burgun, Frédéric Reblewski, Gérard Fenelon, Jean Berbier, Olivier Lepape June 1996 Proceedings of the 33rd annual conference on Design automation

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Session 1A: Dynamic verification: Static scheduling of multi-domain memories for functional verification



Murali Kudlugi, Charles Selvidge, Russell Tessier

November 2001 Proceedings of the 2001 IEEE/ACM international conference on Computer-aided design

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Over the past decade both the quantity and complexity of available on-chip memory resources have increased dramatically. In order to ensure accurate ASIC behavior, both logic functions and memory resources must be successfully verified before fabrication. Often, the functional verification of contemporary ASIC memory is complicated by the presence of multiple design clocks that operate asynchronously to each other. The presence of multiple clock domains presents significant challenges for large ...



asynchronous + synchronous + synchronizer

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D Peleg, JD Ullman - Proceedings of the sixth annual ACM Symposium on Principles ..., 1987 - perial acm.org

... 3. Synchronizers The synchronizer is intended to enable any synchronous algorithm to run on any asynchronous network. The goal of ... Cited by 125 - Web Search

## Practical Design of Globally-Asynchronous Locally-Synchronous Systems - group of 7 »

J Muttersbach, T Villiger, W Fichtner - ... on Advanced Research in Asynchronous Circuits and Systems ( ..., 2000 - doi.leee.computersociety.org

... scheme does not impair performance with synchronizer's latency. ... consumption in clock by using globally asynchronous, locally synchronous design style ... Cited by 72 - Web Search

#### Performance of synchronous and asynchronous schemes for VLSI systems - group of 6 »

M Afghahi, C Svensson - IEEE Transactions on Computers, 1992 - doi.ieeecs.org ... acceptable for scaled-down synchronous VLSI systems. A module in an asynchronous system, Fig. I(b), may be represented by an input synchronizer (FF) and the ... Cited by 53 - Web Search

# Interfacing synchronous and asynchronous modules within ahigh-speed pipeline - group of 13 »

AE Sjogren, CJ Myers - Very Large Scale Integration (VLSI) Systems, IEEE ..., 2000 - ieeexplore.ieee.org ... Pipeline syn- chronization extends the double-latching idea by inserting more pipeline latches between the asynchronous and synchronous module [10]. While each ... Cited by 47 - Web Search - SL Direct

# Globally-asynchronous locally-synchronous architectures to simplify the design of on-chip systems - group of 3 »

J Muttersbach, T Villiger, H Kaeslin, N Felber, W ... - ASIC/SOC Conference, 1999. Proceedings. Twelfth Annual IEEE ..., 1999 - ieeexplore.ieee.org

Page 1. Globally-Asynchronous Locally-Synchronous Architectures to Simplify the Design of On-Chip Systems Jens Muttersbach, Thomas ... Cited by 43 - Web Search

# Unifying synchronous and asynchronous message-passing models - group of 11 »

M Herliny, S Rajsbaum, MR Tuttle - Proceedings of the severiteenth annual ACM symposium on ..., 1998 - portal.acm.org

... passing model when he constructed his synchronizer and showed how (in the absence of faults) synchronous protocols can be run in asynchronous systems in the ...

Cited by 24 - Web Search

#### Montage: An fpga for synchronous and asynchronous circuits - group of 6 »

S Hauck, G Borriello, S Burns, C Ebeling - 2nd International Workshop on Field-Programmable Gate Arrays ..., 1992 - ee.washington.edu

... For synchronous circuit elements, this line carries the ... stateholding function such as an asynchronous SR flipflop ... enabled arbiter, or a synchronizer, with all ... Cited by 18 · View as HTML - Web Search · BL Direct